

### Claims

1. Pharmaceutical composition characterized by containing an effective amount of DM43 protein and a pharmaceutically acceptable vehicle.

2. Composition according to claim 1 characterized by effective concentrations of DM43 protein be within the range of to 1000 ng/mL.

3. Method to inhibit metalloproteinases in human cells through the administration of an effective amount of DM43 protein.

4. Method for the treatment of tumor diseases in human patients, characterized by the administration of an effective amount of DM43 protein to the referred patient, as defined in claims 1 and 2.

5. Method for the treatment of breast tumors, prostate tumors, nape tumors, head tumors and lung tumors, using the composition of claims 1 and 2.

6. Method for the treatment of central nervous system diseases in human patients, using the composition of claims 1 and 2.

7. Method for the treatment of diseases such as multiple sclerosis and Alzheimer disease, using the composition of claims 1 and 2.

8. Method for the treatment of articular diseases such as osteoarthritis in human patients, using the composition of claims 1 and 2.

9. Use of DM43 protein in human treatment to inhibit the presence of matrix metalloproteinases.